






Luminescent screen and low-pressure mercury vapour discharge lamp provided with such a screen.

Patent number: EP0206393
Publication date: 1986-12-30
Inventor: SCHUTTEN EVERT D INT OCTROOIBU; VERLIJSDONK JOHANNUS G INT OCT
Applicant: PHILIPS NV (NL)
Classification:
- International: C09K11/77; C09K11/77; (IPC1-7): C09K11/79
- european: C09K11/77S8; C09K11/77S12
Application number: EP19860200961 19860602
Priority number(s): NL19850001600 19850604

Also published as:
 US4716336 (A1)
 NL8501600 (A)
 JP61283680 (A)
 EP0206393 (B1)

Cited documents:
 EP0052398

[Report a data error here](#)

Abstract not available for EP0206393
 Abstract of corresponding document: **US4716336**

A luminescent screen provided with a zirconium- and/or terbium-activated silicate having an apatite crystal structure according to the formula $Ln_{10-x-p-q}MxII(TbpZrq(SiO_4)_6-y(MIIIIO_4)yOx+y-qN_2-x-y+q$. In this formula, Ln is at least one of the elements Y, La and Gd. MII is Mg, Ca and/or Sr and MIII is Al and/or B. It further holds that: $-0 \leq x \leq 1.9$ $0 \leq p \leq 3$ $-0 \leq y \leq 1.9$ $0 \leq q \leq x + y - x + y \leq 1.9$ $0.1 \leq p + q$.

$Ln_{10-x-p-q}MxII(TbpZrq(SiO_4)_6-y(MIIIIO_4)yOx+y-qN_2-x-y+q$
 $-0 \leq x \leq 1.9$ $0 \leq p \leq 3$
 $-0 \leq y \leq 1.9$ $0 \leq q \leq x + y$
 $0.1 \leq p + q$

Data supplied from the [esp@cenet](#) database - Worldwide